

WHAT IS CLAIMED IS:

1. A data reproduction apparatus comprising:

a reproduction means for reproducing MPEG data according to the MPEG (Moving Picture Experts Group) standard to which address information is added by the sector from a recording medium;

the first reproduction control information creating means for creating the first reproduction control information to show whether this is MPEG data which will be regenerative signal by the use of the address information added to the MPEG data reproduced by said reproduction means;

a storage means for storing MPEG data;

an error correction means for correcting errors of MPEG data designated as MPEG data to be regenerative signal by said first reproduction control information out of MPEG data reproduced by said reproduction means and stored in said storage means, and for storing the corrected MPEG data in said storage means;

the second reproduction control information creating means that creates the second reproduction control information designating MPEG data that will be regenerative signal out of the MPEG data corrected by said correction means depending on the starting point of each picture;

a decoding means for decoding the MPEG data corrected by said correction means and stored in said storage means, and for outputting the same as regenerative signal; and

a control means that outputs a part of MPEG data out of the MPEG data stored in said storing means to said decoding means and thus controls a rapid reproduction by referring to the second reproduction control information produced by said second reproduction control information creating means.

2. The data reproduction apparatus according to claim 1 wherein said storage means is a ring buffer and stores MPEG data reproduced from said recording medium by said reproduction means at least enough to fill a track or MPEG data processed for error correction by said error correction means at least enough to fill a track.

3. The data reproduction apparatus according to claim 2 wherein said controlling means controls a data output pointer of said ring buffer based on the second reproduction control information created by said second reproduction control information creating means.

4. The data reproduction apparatus according to claim 1 wherein

said first reproduction control information created by said first reproduction control information creating means and the MPEG data arranged by the sector are linked and stored in said storage means, and said correction means corrects an error of MPEG data linked with the first reproduction control information and stored in said storage means,

said second reproduction control information created by said second reproduction control information creating means and the MPEG data arranged by the sector are linked and stored in said storage means, and said control means controls in

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such a manner that MPEG data linked with the second reproduction control information and stored in said storage means may be reproduced.

5. The data reproducing apparatus according to claim 1 further comprising:

a storage control means for controlling the input and output of MPEG data stored in said storing means, and wherein

said storage control means rearranges MPEG data reproduced from said recording medium by said reproduction means and having a data structure sequentially arranged by MPEG data and parity data, and stores the same in said storage means.

6. The data reproducing apparatus according to claim 1 wherein said first reproduction control information creating means creates information indicating MPEG data outputted as regenerative signal as the first reproduction control information based on a sector address information added to each sector of the MPEG data reproduced by said reproducing means.

7. The data reproducing apparatus according to claim 1 wherein said recording medium is an optical memory disk reproducing data by the irradiation of light and said reproduction means consists of an optical pickup.

8. The data reproducing apparatus according to claim 1 wherein picture signals are recorded in said recording medium.

9. The data reproducing apparatus according to claim 1 wherein

said second reproduction control information creating means creates information reproduced by said reproduction means as the second reproduction control

information based on a correction result information indicating the result corrected by said correction means and data type information indicating the types of MPEG data,

said control means controls MPEG data outputted from said storage means to said decoding means based on the second reproduction control information created by said second reproduction control information creating means.

10. A data reproduction method comprising the steps of:

reproducing the MPEG data according to the MPEG (Moving Picture Experts Group) standard to which address information is added by the sector from a recording medium;

creating the first reproduction control information to show whether these are MPEG data which will be regenerative signals by the use of the address information of the reproduced MPEG data;

correcting error of the MPEG data designated as MPEG data to be regenerative signal by said first reproduction control information;

creating the second reproduction control information designating MPEG data that will be regenerative signal out of the MPEG data corrected depending on the starting point of each picture; and

decoding a part of MPEG data out of MPEG data corrected by referring to said second reproduction control information for rapid reproduction.

11. The data reproduction method according to claim 10 wherein data reproduced at least enough to fill a track or data processed for error correction at least enough for a

track are stored in a ring buffer.

12. The data reproduction method according to claim 11 wherein a data output pointer of said ring buffer is controlled based on said second reproduction control information.

13. The data reproduction method according to claim 10 wherein,

said first reproduction control information is linked with the MPEG data by the sector and stored;

the MPEG data linked with said first reproduction control information are corrected;

said second reproduction information is linked with the MPEG data by the sector and stored; and

the MPEG data linked with said second reproduction control information is decoded for rapid reproduction.

14. The data reproduction method according to claim 10 wherein data reproduced from said recording medium and having a data structure in which MPEG data and parity data are arranged in succession are rearranged and stored in said ring buffer.

15. The data reproduction method according to claim 10 wherein information indicating MPEG data to be outputted as regenerative signal is created as the first reproduction control information based on sector address information added to each sector of the MPEG data reproduced.

16. The data reproduction method according to claim 10 wherein said recording medium is an optical memory disk that reproduces by the irradiation of light with an

optical pickup.

17. The data reproduction method according to claim 10 wherein picture signals are recorded on said recording medium..

18. The data reproduction method according to claim 10 wherein,

correction result information indicating the correction result and data type information indicating the types of data is created as the second reproduction control information; and

said second reproduction control information created is referred to decoded.